

Amendments to the Claims:

Please cancel claims 1 to 14 as presented in the underlying International Application No. PCT/DE2003/0004042.

Please add new claims 15 to 28 as indicated in the listing of claims below.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-14 (canceled).

Claim 15 (new): A device for supplying a gas to a fuel cell comprising:

a claw compressor disposed upstream from the fuel cell and having first and second engaging compressor wheels; and

a claw expander disposed downstream from the fuel cell and having first and second engaging expander wheels.

Claim 16 (new): The device as recited in claim 15, wherein each of the first and second compressor wheels have at least two compressor claws and each of the first and second expander wheels have at least two expander claws.

Claim 17 (new): The device as recited in claim 15, further comprising first and second shafts, and wherein the first compressor wheel and the first expander wheel are mounted on the first shaft and the second compressor wheel and the second expander wheel are mounted on the second shaft.

Claim 18 (new): The device as recited in claim 17, further comprising a synchronizing gear unit connecting the first and second shafts.

Claim 19 (new): The device as recited in claim 15, wherein the claw compressor and the claw expander have a same rotational direction and a mirror-inverted configurations.

Claim 20 (new): The device as recited in claim 15, wherein a configuration of the claw compression defines a compressor ratio of the gas produced by the claw compressor and a configuration of the claw expander defines an expansion ratio of the gas produced by the claw expander.

Claim 21 (new): The device as recited in claim 15, wherein a compression ratio of the gas produced by the claw compressor and an expansion ratio of the gas produced by the expander are adjustable.

Claim 22 (new): The device as recited in claim 15, wherein the claw compressor includes a compressor pumping chamber and the claw expander includes an expander pumping chamber, the expander pumping chamber being smaller than the compressor pumping chamber.

Claim 23 (new): The device as recited in claim 22, wherein a size of the expander pumping chamber is 0.3 to 0.6 times the size of the compressor pumping chamber.

Claim 24 (new): The device as recited in claim 18, wherein the compressor and the expander are configured to be cooled by expansion cooling.

Claim 25 (new): The device as recited in claim 24, wherein the expander disposed on a side of the synchronizing gear unit so as to provide expansion cooling of the compressor and the expander.

Claim 26 (new): The device as recited in claim 24, wherein a gas exiting the expander is provided to the compressor.

Claim 27 (new): The device as recited in claim 24, wherein the compressor and the expander are disposed in a common housing.

Claim 28 (new): The device as recited in claim 27, wherein the housing has a double wall.